

To: Paul Powell[ppowell@pgei.com]
From: Suchomel, Bruce
Sent: Tue 1/7/2014 6:06:09 PM
Subject: RE: Antelope Creek Waterflood Unit

Hi Paul,

The holiday season was good, and yes, it was great seeing you again at the Expo. Hopefully your holidays went well.

Regarding your question, your UIC permits should be able to guide you. Generally for Waterflood units the commingling of produced water is allowed, but check the permit, there may be some information there regarding water quality requirements, or you may need to submit water quality results.

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From: Paul Powell [mailto:ppowell@pgei.com]
Sent: Friday, January 03, 2014 4:49 PM
To: Suchomel, Bruce
Subject: Antelope Creek Waterflood Unit

Bruce,

I hope you enjoyed the holidays. It was good to see you again at the Ute Tribe Oil & Gas Expo a few months ago. As you know Petroglyph Operating Company has the Antelope Creek Waterflood Unit in T5S-R3W where we are flooding the Lower Green River formation. I have what I hope is a simple question. Outside of our Antelope Creek Waterflood Unit, Petroglyph has drilled a few wells where we commingle production from both the Lower Green River and Wasatch formations. Is this commingling permissible inside the Unit? We have no intention of modifying the Unit to flood the Wasatch formation. Obviously if we ever wanted to apply to convert a commingled producer into an injection well, it would have to be plugged back above the Unit's lower confining zone. Before pursuing this I was hoping to find out what EPA's

involvement would need to be and whether this is more complicated than I am envisioning. I would appreciate your insights. Have a good weekend.

Thanks,

Paul

Paul R. Powell

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